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Cautions

Device related

- You should check the names and colors of each wires exactly, before you connect the wires. ex) CAN HIGH: White wires / CAN LOW: Blue wires
- The 'POWER / CAN Cable' should always be connected last and be disconnected first.
- The 'Mode Switch' is an optional part to change modes forcibly without CAN-BUS. Generally, the CAN-BUS wires are connected for changing modes by original buttons.
- When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

HDMI device-related

- HDMI mode accepts general-screen resolution of HDMI devices(1080P / 1920*1080).
 If screen size of HDMI does not fit on the monitor, should adjust screen size & position in 'settings mode'.
- Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone. If you need higher voltage than 5V, you should add a separate power supply.
- Navigation(GPS) box-related
 - When you connect the power wires(B+, ACC) to the navigation(GPS) box, the 'NAVI 12V OUT' wire supported by device should be spliced with an ACC wire of navigation box.
 - After installation is done, select an applicable navigation(GPS) box model in the 'Navigation model selection menu' of setting mode.

• The navigation box should be powered off before unplugging the HDMI cable. support@car-solutions.com



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Components



Full Installation Diagram

Main Connector of Head Unit(In the Glovebox)

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HDMI Connection Diagram





Navigation Connection Diagram

Navigation Connection Diagram

Compatibility Chart for Navigation(GPS) box models



- The device supports navigation(GPS) box models equipped with 'Digital video output'.
- It does not support the 'RGB video signals'.

LVDS Connection Diagram



Body Connector specifications



 The colors of each wires can be changed under manufacturer's circumstance. support@car-solutions.com

Car Compatibility Chart

Car Models	Production Year	Specific Models
A3	2013 -	8V
		•
		\sim
		S
		0
		U



Activation by original buttons





Steering wheel buttons

Button	Function	Operation	Remarks
1 NAV(TONE)	Changing Modes	Press the button 2 seconds long.	Order: HDMI \rightarrow NAVI \rightarrow AV2 \rightarrow OEM
1	Shortcut to	Press the button 2 times quickly. < C	$DEM \to NAVI >$
NAV(TONE)	Each modes	Press the button 3 times quickly. < C	$DEM \rightarrow AV2 >$
1 NAV(TONE)	System Locking / Unlocking	Press the button 10 seconds long.	If you visit car service center, you can lock the all functions of device. It is only possible to use the OEM functions under it is locked.
Buttons marked with yellow	Back to OEM	Press the buttons short.	Return to the OEM mode in any modes.
2 iNAV	Changing mode to Front View CAM mode(AV1)	Press the button 2 seconds long.	It changes the screen from any modes to AV1 mode directly.
ЗВАСК	Reset to factory default setting and power.	Press the button 10 seconds long.	You can use this function when you get in trouble to see the screen while setting the screen.
4 MENU	Enter into the setting menu	Press the button 5 seconds long.	All functions of setting menu is controlled by the MMI controller.

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DIP Switch Settings



Pin Io.	ON(▼)	OFF(▲)		No.6	No.7	No.8	No.9	No.10	Car Models
1	HDMI Mode	Skip HDMI Mode		OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	5.8-inch Screen (400*240) (MMI Radio)
2	Navigation Mode	Skip Navigation Mode		ON(▼)	OFF(▲)	OFF(▲)	OFF(▲)	ON(▼)	7-inch Screen (800*480) (MMI Navigation Plus)
3	External Rear View Camera	Original Rear View Camera							
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)							
5	AV2 Mode	Skip AV2 Mode							
6			<i>J</i>						
7		CO.							
8	Selection o	f car model							
9									
10	C	0							





1. Enter into the setting menu.

<Press the 'MENU' button 5 seconds long.>

- HDMI & Navigation settings
- Rear view camera settings
- AV-input settings
- System settings
- System information



2. HDMI mode settings

- Mode selection: HDMI ↔ NAVI
- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of HDMI display.

Screen position & size = Adjust position and size of HDMI display.



3. NAVI mode settings

- Mode selection: NAVI ↔ HDMI
- Image display

(4) MS1400

- = Adjust the values of brightness and contrast Red-Green-Blue colors of NAVI display.
- Screen position & size = Adjust position and size of NAVI display.
- Navigation model selection

 Default
 CUBE(Not applicable)
 Class settop

6 Class PE

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(5) iQ 3D 5000



AV-Input settings	Back
Mode selection : AV1 (Front view camera)	
image display	►
Screen position & size	►
Automatic activation function (AV1)	►
Parking distance control	►

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4. Rear view camera settings

- Parking guide lines
 - = Adjust position of parking guide lines and select the lines 'ON or OFF'.
- Parking distance control
 - = Adjust position of Parking Distance Control sensors
 - to 'LEFT or RIGHT' and select PDC function 'ON or OFF'.
- Image display
- Adjust the values of brightness and contrast Red-Green-Blue colors of Rear view camera display.

5. AV1(Front view camera) settings

- Mode selection: AV1(Front view camera) ↔ AV2
- Image display
 - Adjust the values of brightness and contrast Red-Green-Blue colors of AV1(Front view camera) display.
- Screen position & size
 - = Adjust the position and size of AV1 display.
- Automatic activation function(AV1)
 - = *Please refer to the next page.
- Parking distance control
 - = Adjust position of Parking Distance Control sensors to 'LEFT or RIGHT' and select PDC function 'ON or OFF'. www.car-solutions.com



AV-Input settings	Back
Mode selection : AV2	
image display	►
Screen position & size	►

6. Automatic activation function(AV1)

- Shift gear from reverse to drive
- Shift gear from parking to drive
 - * When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

	Act	ivation time	
OFF	8 seconds	🔽 10 seconds	15 seconds

7. AV2 settings

- Mode selection: AV2 ↔ AV1(Front view camera)
- Image display
 - = Adjust the values of brightness and contrast Red-Green-Blue colors of AV2 display.
- Screen position & size = Adjust the position and size of AV2 display.

System settings Back Image: Safe mode : ON Image: ON Image: Factory default Image: Non-State State Sta

8. System settings

- Safe mode
 - = Select the one of two between 'ON and OFF'.
 - * If you select 'ON', 3 modes(HDMI, NAVI and AV2) will be faded out when the car is driven.

Factory default

= Reset all setting values to factory default setting.



9. System information

- Mode name:
- Firmware date: 2015 05 12(Latest firmware date)
- = You can check the current firmware version date.
- Dip switch settings
 - = You can check the current positions of dip switch settings.

System information - Dip switch settings					
	ON OFF	No. 1	ндмі	ON	
	1	No. 2	Navigation	ON	
		No. 3	External rear view camera	ON	
	4	No. 4	AV1	ON	
	5	No. 5	AV2	OFF	
	6	No. 6		ON	
		No. 7		OFF	
		No. 8	Selection of car model	OFF	
	9	No. 9		OFF	
	10	No. 10		ON	

ex 1) Actual DIP switch values. (\rightarrow)



Appears on the setting menu. (\downarrow)

No. 1	HDMI	ON
No. 2	Navigation	OFF
No. 3	External rear view camera	ON
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6	Selection of car model	OFF
No. 7		ON
No. 8		OFF
No. 9		ON
No. 10		OFF

10. Information of Dip switch settings

* You can check current positions of dip switch settings.

ex 2) Actual DIP switch values. (\rightarrow)



Appears on the setting menu. (\downarrow)

No. 1	HDMI	ON
No. 2	Navigation	ON
No. 3	External rear view camera	OFF
No. 4	AV1	ON
No. 5	AV2	OFF
No. 6		ON
No. 7	Selection of car model	OFF
No. 8		OFF
No. 9		
No. 10		OFF

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